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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/783,729

02/20/2004

Marie S. Chan

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25280

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03/28/2008

Legal Department (M-495)

P.O. Box 1926

Spartanburg, SC 29304

EXAMINER

HARDEE, JOHN R

ART UNIT

PAPER NUMBER

1796

MAIL DATE

DELIVERY MODE

03/28/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/783,729	Applicant(s) CHAN ET AL.	
	Examiner John R. Hardee	Art Unit 1796	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5, 8-12, 18, 31, 34, 37 and 39-42 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 8-12, 18, 31, 34, 37 and 39-42 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 8 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These are claims of “comprising” scope dependent from claims of consisting scope. They are broader than the claim they modify and are therefore indefinite.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
4. Claims 1-5, 8-12, 18, 31, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Trinh et al., US 4,481,126. Trinh discloses a substantially nonabrasive, liquid car cleaner composition which cleans car surfaces without an external source of water to wash or rinse. The product is a composition of up to 30% polymeric solids, up to 95% liquid carrier and a suspension aid. (abstract) Other optional ingredients such as waxes, fluorosurfactants, anticorrosion agents, antistatic agents, sunscreens, inorganic mild abrasives, pigments, perfumes, and preservatives can also be used for added benefits. (col. 2, lines 64-68) The liquid car cleaner composition of this invention comprises organic polymeric solids selected from

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the group consisting of: porous and/or nonporous powdered particles in the particle size range of from 1 micron to about 250 microns (col. 2, lines 37-42) A liquid carrier is required and can be used at a level of up to 95% by weight of the composition. Water and aliphatic hydrocarbon (oil) solvents are used as the liquid carrier. The hydrocarbons can boil as high as 300 degrees C, making obvious the use of mineral oil. Mixtures of water and aliphatic hydrocarbon solvents are preferred. Both surfactants and thickeners are used as the suspending agent. The surfactants are also used as emulsifier and cleaning aid. (col. 2, lines 53-56 and 59-62) The suitable polymeric particulate materials can be synthetic or naturally-occurring polymeric materials include, but are not limited to, polyethylene, polypropylene, polystyrene, polyester resin, urea-formaldehyde resin, polyvinyl chloride, polyacrylics, polyamide, and copolymers, whereas the naturally-occurring polymeric materials are cellulosic materials. (col. 3, lines 34-44) The suspending agents useful in this invention are suitable surfactants and thickeners and mixtures thereof. These surfactant suspending agents have the properties of dispersing solid particles and liquid droplets. They are used to disperse the polymeric particles throughout the cleaner compositions. Most of the cleaning compositions of this invention contain both oil and water phases. The surfactants also stabilize the emulsion of these two phases. Substantially any surfactant materials which are compatible with the other components in the composition of this invention can be utilized. These include nonionic, anionic, cationic, amphoteric and zwitterionic surfactants. Regarding claim 11, the reference discloses at col. 7, line 13 that nonionic surfactants generally are useful in the compositions, and the structure in claim 11 is

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generic to most nonionic surfactants. Regarding claim 12, the recited sulfates are notoriously common anionic surfactants, the use of which would be immediately envisaged by the person of ordinary skill in the surfactant art in view of the disclosure of the utility of anionic surfactants. The composition of this invention can consist of up to 10% by weight of a suspending agent surfactant; preferably between 0.4% and 2%. Thickener suspending agents that can be utilized include, but are not limited to, salts of polyacrylic acid polymer, sodium carboxymethyl cellulose, hydroxyethyl cellulose, acrylic ester polymer, polyacrylamide, polyethylene oxide, natural polysaccharides such as gums, algin, pectins. They are used at effective levels of up to 10%. (col. 5, lines 18-45) Although the reference does not teach that the surfactant provides a surface tension in water of about 40 dynes per cm, the compositions are identical and thus the property would be inherent. Example 1 discloses all of the instantly claimed components in their required amounts. (col. 10, lines 46-68)

The reference fails to teach the particle size of the calcium carbonate used. The reference fails to teach the specific surfactant of claim 11. The reference fails to teach that the acrylic component that is disclosed is an acrylic stain resistant agent.

Although the reference fails to teach the particle size of the calcium carbonate used, the reference does teach that mild inorganic abrasives such as calcium carbonate powder can also be used when polishing action is desired so long as they do not leave unsightly residue on textured vinyl surfaces, (col. 6, lines 28-31) as well as the particle sizes of the other solids that are present, therefore there would be a reasonable expectation of success to modify the prior art to arrive at the instantly claimed invention

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because the prior art suggest a particle size of other solids to be suspended. Although the reference fails to teach the specific surfactant of claim 11, there would be a reasonable expectation of success to modify the prior art to arrive at the instantly claimed invention because the prior art does suggest that any surfactant that is compatible with the system may be used. Although the reference fails to teach that the acrylic component that is disclosed is an acrylic stain resistant agent the reference does teach that acrylic additives may be used, therefore there would be a reasonable expectation that material of the same structure will have similar properties.

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to create the instantly claimed composition in view of the Trinh cleaning composition, which contains all the required components in the required amounts.

5. Claims 37 and 39-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Trinh et al., US 4,481,126 in view of Froehlich, US 3,910,848 or Brown, US 5,514,302. The Trinh reference is summarized above. It fails to teach that aerosol may be used with the liquid cleaner of the variety disclosed.

Although the reference does not disclose the use of an aerosol propellant, the use of aerosols with cleaning compositions is well known in the art. Froehlich, the secondary reference in analogous art teaches that a cleaning composition containing a polymer urea-formaldehyde polymer particles having a particle size of from 10 to 105 microns and an oil value of at least 90, a halogenated solvent boiling at from 45 degrees. to 120 degree C., a silica antissettling agent, a cationic antistatic agent, and an

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aerosol propellant selected from at least one of trichlorofluoromethane, dichlorodifluoromethane, 1,2-dichlorotetrafluoroethane, propane, isobutane and butane. (col. 1, lines 37-60).

Therefore there is a reasonable expectation of success that an aerosol may be used with the composition of the reference as the composition of the secondary reference has similar structural properties, uses and components.

Brown, the secondary reference in analogous art teaches an improved aqueous fabric cleaning shampoo composition fabric solid cleaning polymer, surfactant in water Which may be in the form of a self-pressurized aerosol, with a conventional propellant such as dimethyl ether or one or more saturated alkanes containing from 2 to 6 carbon atoms such as propane, isopropane, n-butane, isobutane, isopentane or n-hexane is added through the valve. Although the reference does not disclose the use of an aerosol propellant, the use of aerosols with cleaning compositions is well known in the art. Brown, (abstract col. 10, lines 27-48).

Therefore there is a reasonable expectation of success that an aerosol may be used with the composition of the reference as the composition of the secondary reference has similar structural properties, uses and components.

Response to Arguments

6. Applicant's arguments filed February 11, 2008 have been fully considered but they are not persuasive. Applicant argues that there is no motivation to modify the silicone containing composition of the reference to arrive at applicant's composition.

This is not persuasive because the reference clearly teaches that silicone is preferred but optional nonetheless.

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to the examiner, Dr. John R. Hardee, whose telephone number is (571) 272-1318. The examiner can normally be reached on Monday through Friday from 8:00 until 4:30. In the event that the examiner is not available, his supervisor, Mr. Harold Pyon, may be reached at (571) 272-1498.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John R. Hardee/
Primary Examiner
March 24, 2008